I can write and calculate powers.

- I can calculate square and cube roots.
- 1) Match the square roots with their answers:





2)

Super Powers Answers

Question	Answer		
1.	Match the square roots with their answers:		
	√16		3
	√64		4
	√9		9
	√36		8
	√81		6
	√121		5
	√49		11
	√25		7
2.	Calculate the answers:		
α	4 ² = 16		
b	10 ³ = <i>1000</i>		
с	5 ³ = 125		
d	7 ³ = 343		
e	2 ⁸ = 256		
f	3 ⁶ = 729		
g	5 ⁶ = 15 625		
h	6 ⁴ = 1296		





Super Powers

I can write and calculate powers.

- I can calculate square and cube roots.
- 1) Use a calculator to work out these powers:
 - a) 9⁴ = _____
 - b) 6³ = _____
 - c) 25³ = _____
 - d) 5⁶ = _____
 - e) 15² = _____
 - f) 5⁸ = _____
 - g) 8⁴ = _____
 - h) 10⁴ = _____
- 2) Work out these square roots. Use trial and improvement and a calculator if you need to.
 - a) √64 = _____
 - b) √81 = _____
 - c) √144 = _____
 - d) √121 = _____
 - e) √225 = _____
 - f) √289 = _____
 - g) √441 = _____
 - h) √900 = _____
 - i) √2500 = _____
 - j) √10 000 = _____
- Work out these cube roots. Use trial and improvement and a calculator if you need to.

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- α) ³√125 = _____
- b) ³√3375 = _____
- c) ³√6859 = _____





Super Powers Answers

Question	Answer		
1. Use a calculator to work out these powers:			
α	9 ⁴ = 656 1		
b	6 ³ = 216		
с	25 ³ = 15 625		
d	5 ⁶ = 15625		
е	15 ² = 225		
f	5 ⁸ = 390 625		
g	8 ⁴ = 4096		
h	10 ⁴ = 10 000		
2. Work out and a calcu	these square roots. Use trial and improvement lator if you need to.		
α	√64 = 8		
b	√81 = 9		
с	√144 = 12		
d	√121 = 1 1		
е	√225 = IS		
f	√289 = 17		
g	√441 = 2 1		
h	√900 = 30		

i	√2500 = 50		
j	√10 000 = 100		
3. Work out these cube roots. Use trial and improvement and a calculator if you need to.			
α	³√125 = s		
b	³√3375 = IS		
с	³√6859 = 19		





Super Powers

I can write and calculate powers.

- I can calculate square and cube roots.
- 1) Use a calculator to work out these powers:
 - a) 15⁴ = _____
 - b) 19³ = _____
 - c) 32³ = _____
 - d) 6⁶ = _____
 - e) 25² = _____
 - f) 5⁸ = _____
 - g) 18⁴ = _____
 - h) 100⁴ = _____
- 2) Work out these square roots. Use trial and improvement and a calculator if you need to.
 - a) √169 = _____
 - b) √81 = _____
 - c) √144 = _____
 - d) √121 = _____
 - e) √576 = _____
 - f) √361 = _____
 - g) √529 = _____
 - h) √729 = _____
 - i) √1521 = _____
 - j) √2025 = _____
- 3) Work out these cube roots. Use trial and $\frac{1}{2}$ improvement and a calculator if you need to.
 - a) ³√4096 = _____
 - b) ³√13 824 = _____
 - c) ³√1 000 000 = _____





Super Powers Answers

Question	Answer	
1. Use a calculator to work out these powers:		
α	15 ⁴ = 50 625	
b	19 ³ = 6859	
с	32 ³ = 32 768	
d	6 ⁶ = 46 656	
е	25 ² = 625	
f	5 ⁸ = 390 625	
g	18 ⁴ = 104 976	
h	100 ⁴ = 100 000 000	
2. Work out and a calcu	these square roots. Use trial and improvement lator if you need to.	
α	√169 = 13	
b	√81 = 9	
с	√144 = 12	
d	√121 = II	
е	√576 = 24	
f	√361 = 19	
g	√529 = 23	
h	√729 = 27	

i	√1521 = 39		
j	√2025 = 45		
3. Work out these cube roots. Use trial and improvement and a calculator if you need to.			
a	³√4096 = <i>16</i>		
b	³√13 824 = 24		
с	³√1 000 000 = <i>100</i>		

